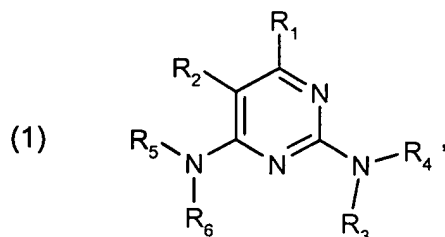


In the claims:

Claims 1-21 (cancelled).

22. **(currently amended)** A method for the antimicrobial treatment of a surface of a plastic, which comprises contacting said surface of a plastic with an antimicrobially effective amount of a 2,4-bis(alkylamino)pyrimidine of formula



wherein

R₁ is C₁-C₁₂alkyl or C₆-C₁₀aryl;

R₂ is hydrogen or C₁-C₁₂alkyl;

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₂₀alkyl, ~~unsubstituted phenyl, C₆-C₄₀aryl, C₆-C₁₀aryl~~-C₁-C₆alkyl, hydroxy-C₁-C₆alkyl, di-C₁-C₆alkylamino-C₁-C₆alkyl, mono-C₁-C₆alkylamino-C₁-C₆alkyl, -(CH₂)₂-(O-(CH₂)₂)₁₋₄-OH or -(CH₂)₂-(O-(CH₂)₂)₁₋₄-NH₂;

R₆ is C₁-C₂₀alkyl, ~~C₆-C₄₀aryl, C₆-C₁₀aryl~~-C₁-C₆alkyl, hydroxy-C₁-C₆alkyl, di-C₁-C₆alkylamino-C₁-C₆alkyl, mono-C₁-C₆alkylamino-C₁-C₆alkyl, -(CH₂)₂-(O-(CH₂)₂)₁₋₄-OH or -(CH₂)₂-(O-(CH₂)₂)₁₋₄-NH₂; or

R₃ and R₄ and/or R₅ and R₆ together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

23. **(previously presented)** A method according to claim 22, wherein

R₁ is C₁-C₈alkyl or phenyl.

24. **(previously presented)** A method according to claim 22, wherein

R₂ is hydrogen or C₃-C₈alkyl.

25. **(withdrawn)** A method according to claim 22, wherein

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl.

26. **(withdrawn)** A method according to claim 22, wherein

R₄ is C₁-C₁₂alkyl, unsubstituted phenyl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

R₆ is C₁-C₁₂alkyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂.

27. **(withdrawn)** A method according to claim 22, wherein

R₁ is C₁-C₈alkyl or phenyl;

R₂ is hydrogen or hexyl; and

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₁₂alkyl, unsubstituted phenyl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

R₆ is C₁-C₁₂alkyl, C₆-C₁₀aryl, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; or

R₃ and R₄ and/or R₅ and R₆ together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

28. **(cancelled)**

29. **(currently amended)** A method according to claim 22, wherein

R₁ is C₁-C₄alkyl or phenyl;

R₂ is hydrogen or hexyl

R₃ and R₅ are each independently of the other hydrogen or C₁-C₈alkyl;

R₄ is C₁-C₁₂alkyl, ~~unsubstituted phenyl~~, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; and

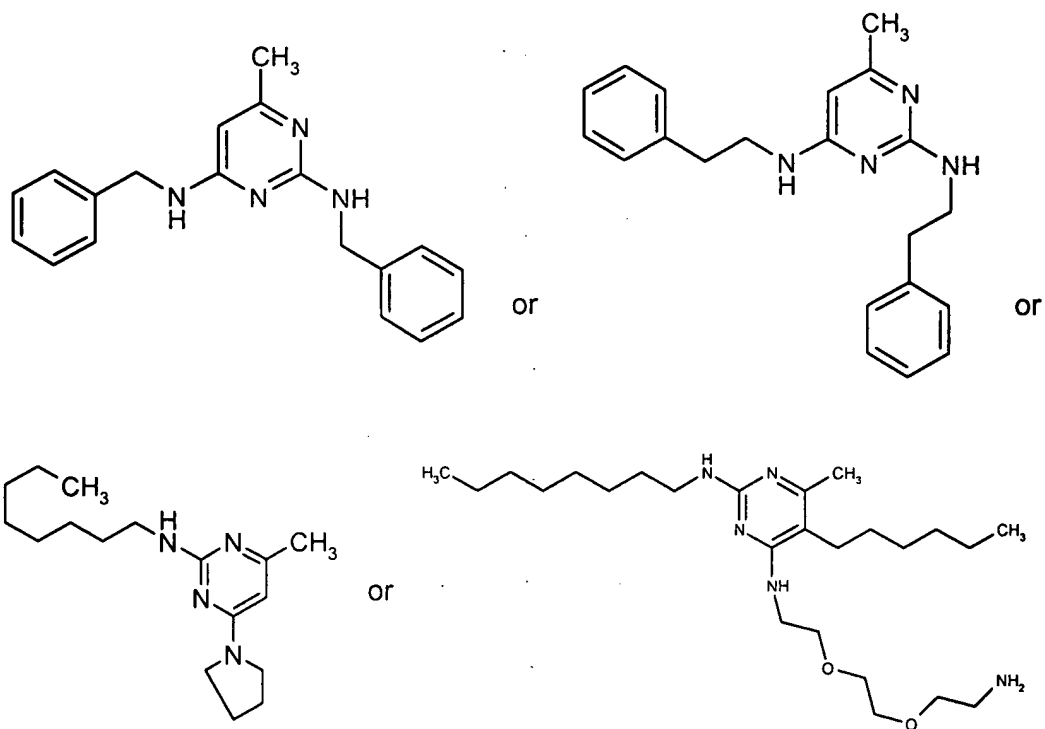
R₆ is C₁-C₁₂alkyl, ~~C₆-C₁₀aryl~~, C₆-C₁₀aryl-C₁-C₆alkyl, hydroxy-C₂-C₆alkyl, di-C₁-C₄alkylamino-C₁-C₄alkyl, mono-C₁-C₄alkylamino-C₁-C₄alkyl, -(CH₂)₂-(O-(CH₂)₂)_{1,2}-OH or -(CH₂)₂-(O-(CH₂)₂)_{1,2}-NH₂; or

R₃ and R₄ together, and R₅ and R₆ together, form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

30. **(withdrawn)** A method according to claim 22, wherein

R_3 and R_5 , and R_4 and R_6 , have the same meanings.

31. **(previously presented)** A method according to claim 22, wherein the 2,4-bis(alkylamino)pyrimidine is of the formula



32-42. **(cancelled)**